AMENDMENTS TO THE CLAIMS

- 1. (currently amended) An abrasion and wear resistant fabric assembly comprising:
 - a flexible substrate having a top surface; and
 - pattern affixed to the top surface of the substrate, wherein the plates have a substantially uniform thickness of approximately 5 to 20 mils, and wherein the plates define a plurality of continuous gaps having approximately uniform width between adjacent plates.
- 2. (previously presented) The abrasion and wear resistant fabric of claim 1, wherein the substantially uniform thickness is approximately 5 to 10 mils.
- 3. (<u>currently amended</u>) The abrasion and wear resistant fabric assembly of claim 1, wherein the <u>width of plates define a plurality of continuous gaps between adjacent plates</u>, each gap <u>is having a width</u> approximately 5 to 20 mils, and wherein the plates comprise polymeric resin, and wherein the substrate comprises a woven fabric.
- 4. (previously presented) The fabric assembly of claim 3, wherein the plates each have a maximum dimension in the range of 20 to 200 mils.
- 5. (previously presented) The fabric assembly of claim 3, wherein the plates are identical.
- 6. (previously presented) The fabric assembly of claim 3, wherein the plates each have a diameter in the range of 20 to 100 mils.

- 7. (<u>currently amended</u>) The fabric assembly of claim 5, wherein the plates are <u>each</u> shaped as a polygon.
- 8. (previously presented) The fabric assembly of claim 7, wherein the polygon is an equilateral hexagon.
- 9. (previously presented) The fabric assembly of claim 8, wherein the equilateral hexagon has a diameter in the range of 20 to 100 mils.
- 10. (previously presented) The fabric assembly of claim 9, wherein the diameter is in the range of 20 to 80 mils.
- 11. (previously presented) The fabric assembly of claim 5, wherein the plates have a curved shape.
- 12. (canceled) The fabric assembly of claim 11, wherein the curved shape is approximately circular.
- 13. (previously presented) The fabric assembly of claim 3, wherein the plates are non-identical relative to each other.
- 14. (canceled) The fabric assembly of claim 3, wherein the plates comprise a polymeric resin.
- 15. (currently amended) The fabric assembly of claim 314, wherein the polymeric resin is epoxy.
- 16. (<u>currently amended</u>) previously presented) The fabric assembly of claim 13, wherein the plates comprise a composite material.

- 17. (previously presented) The fabric assembly of claim 16, wherein the composite material comprises a ceramic material.
- (previously presented) The fabric assembly of claim 16, wherein the composite material comprises a plastic.
- (canceled) The fabric assembly of claim 3, wherein the flexible substrate comprises a woven or knit fabric.
- (currently amended) The fabric assembly of claim 319, wherein the flexible substrate comprises at least one polyester, cotton, Kevlar®, and nylon.
- (canceled) The fabric assembly of claim 19, wherein the 21. flexible substrate comprises cotton.
- (canceled) The fabric assembly of claim 19, wherein the flexible substrate comprises Kevlaro.
- 23. (canceled) The fabric assembly of claim 19, wherein the flexible substrate comprises nylen.
- (currently amended) The fabric assembly of claim 13, wherein the flexible substrate comprises a non-woven material.
- (previously presented) The fabric assembly of claim 24, wherein the non-woven material comprises leather.
- (currently amended) The fabric assembly of claim 3, wherein the substrate further comprises a compressible material.

- 27. (previously presented) The fabric assembly of claim 26, wherein the substrate further comprises a fabric laminated to the compressible material.
- 28. (previously presented) The fabric assembly of claim 3, wherein the flexible substrate comprises neoprene.
- 29. (currently amended) TheAn abrasion and wear resistant fabric assembly of claim 3, comprising:
 - a flexible substrate having a top surface; and
 - a plurality of non-overlapping plates affixed to the top surface of the substrate, the plurality of plates arrayed such that a plurality of gaps are defined between adjacent plates, wherein the plates have a substantially uniform thickness, and wherein the plurality of plates enhances the abrasion resistance of the flexible substrate by a selected factor.
- 30. (previously presented) The abrasion and wear resistant fabric assembly of claim 29, wherein the plurality of plates comprises a material that selectively increases heat resistance of the flexible substrate.
- 31. (previously presented) The fabric assembly of claim 29, wherein the plate thickness is approximately 5 to 40 mils.
- 32. (previously presented) The fabric assembly of claim 29, wherein the plates comprise polymeric resin with tensile strength greater than 100 kgf/cm^2 .
- 33. (previously presented) The fabric assembly of claim 29, wherein the factor ranges from 2 to 200.

- 34. (previously presented) The fabric assembly of claim 33, wherein the factor of abrasion resistance enhancement ranges from 5 to 100.
- 35. (previously presented) The fabric assembly of claim 34, wherein the factor of abrasion resistance enhancement ranges from 10 to 50.
- 36. (previously presented) The fabric assembly of claim 35, wherein the factor of abrasion resistance enhancement ranges from 12 to 30.
- 37. <u>(canceled)</u> A method of making an abrasion and wear resistant fabric assembly comprising:

selecting a flexible substrate having a top surface;

selecting a heat resistant plate material capable of being

solid and affixed to the top surface of the flexible

substrate; and

- affixing the plate material on the top surface of the flexible substrate, the plate material forming a plurality of non-overlapping plates having a substantially uniform thickness of approximately 5 to 40 mils.
- 38. <u>(canceled)</u> A method of making an abrasion and wear resistant fabric assembly comprising:

selecting a flexible substrate having a top surface;

- scleeting a plate material capable of being solid and affixed to the top surface of the flexible substrate;
- elfixing the plate material on the top surface of the flexible substrate, the plate material forming a plurality of non-everlapping plates having an

approximate uniform thickness in the range of 5 to 40 mile, the plates enhancing the abrasion resistance of the flemible substrate by a selected factor.

- 39. (currently amended) TheAn fabric assembly of claim 1, comprising:
 - a flexible substrate having a top surface; and
- a plurality of non-overlapping plates affixed to the top surface of the substrate, wherein the plates comprise a low thermal conductivity material.
- 40. (previously presented) The fabric assembly of claim 39, wherein the low thermal conductivity material comprises porous ceramic.
- 41. (previously presented) The fabric assembly of claim 40, wherein the low thermal conductivity material further comprises silica glass fiber.
- 42. (previously presented) The fabric assembly of claim 41, wherein the low thermal conductivity material comprises an air volume of up to approximately 94%.
- 43. (currently amended) The fabric assembly of claim 342, wherein the substrate comprises a heat resistant fabric.
- 44. (new) The fabric assembly of claim 7, wherein the polygon is an octagon, a square, a diamond, or a triangle.
- 45. (new) The fabric assembly of claim 1, wherein the flexible substrate comprises a knit fabric.
- 46. (new) The fabric assembly of claim 3, wherein the polymeric

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resin further comprises an additive selected to increase the abrasion resistance of the fabric assembly, wherein the additive comprises at least one of alumina particles, titanium particles, and ceramic beads.